

SOROKIN, S.S., Cand Med Sci -- (diss) "Dynamics of *Changes of*  
the blood vessels of the gastro-intestinal tract  
in cases of peritonitis." Mos 1958 14pp. (Min of  
Health USSR. Central Inst for the Advanced Training  
of Physicians) 200 copies (KL, 39-58, 112)

- 73 -

SOROKIN, S.S.; SELEZNEV, S.I.; MERKULOV, M.A.; GALUZINSKIY, P.A.;  
KRIVOPALOV, V.I.; MAYATSKIY, I.G.; PARASHUTIN, N.V.; SUDARIKOV,  
V.R.; MERKULOV, M.A.; TARBEYEV, A.A.; IL'YUSHENKOVA, T.P.,  
tekhn. red.

[Accounting in industrial enterprises] Bukhgalterskii uchet v  
promyshlennyykh predpriyatiyakh. Pod red. S.S.Sorokina. 2.,  
perer. izd. Moskva, Gosstatizdat, 1962. 333 p. (MIRA 16:3)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye upravleniye. Upravleniye podgotovki kadrov schetnykh rabotnikov.
2. Upravleniye podgotovki kadrov schetnykh rabotnikov Tsentral'nogo statisticheskogo upravleniya SSSR (for all except Il'yushenkova).

(Accounting)

SOROKIN, S.S.; NAYDIN, P.G., prof., red.; VISHNYAKOVA, Ye., red.;  
USTINOVA, S., tekhn. red.

[Soil fertility is in our hands] Plodorodie zemel' - v  
nashikh rukakh. Moskva, Mosk. rabochii, 1964. 167 p.  
(MIRA 17:2)

ZLOBIN, Pavel Iosifovich; SOROKIN, Sergey Semenovich, spets.  
red.; ZAV'YALOVA, A.N., red.; PONOMAREVA, A.A., tekhn.  
red.  
[Accounting in construction] Bukhgalterskii uchet v  
stroitel'stve. Moskva, Ekonomizdat, 1963. 462 p.  
(MIRA 17:2)

SOROKIN, Sergei Vasil'evich

The preparation of fodder for feeding. Izd. 4, ispr. i dop. Moskva,  
Gos. izd-vo sel'khoz. lit-ry, 1948. 62 p. (Bibliotekha kolkhoznogo  
zhivotnovoda)

SOROKIN, S. V.

25948

Dinamika khlyebnykh klyechyey v eyernokhranilchakh kolkhozov vologodskoy oblasti.  
Trudy Vsesoyuz. in-ta zhivoty rasteny, vyp. 2, 1949, s. 61-68.

XXII. Edravookhranyeniye. Myeditsina

1. Obchiye voprosy

SO: Letopis' No. 34

SOROKIN, S. V.

FA 54/49T77

USSR/Medicine - Food Mites  
Medicine - Parasitology

Jul/Aug 49

"Ecology of Food Mites in Kolkhoz Granaries of  
Vologda Oblast," S. V. Sorokin, All-Union Inst for  
Plant Protection, All-Union Acad Agr Sci imeni  
Lenin, 18 pp

"Zool Zhur" Vol XXVIII, No 4

Soil beneath the granary is ideal nidus for survival  
and multiplication of various food mites, including  
common parasites, flour mite and Gl. destructor.  
Reducing average moisture of a given substratum to  
to 14% inhibits development of the flour mite, but  
does not affect the Gl. destructor.

54/49T77

SOROKIN, S. V.

Mites

Flour mites from the point of view of sanitation. Paraz. sbor. no.13, 1951

Zool. Int., AS USSR

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.



SOROKIN, S. V.

Tyroglyphidae

Reports on the ecology of grain mites in an ant colony. Zool. Zhur. 31 No. 4 1952

9. Monthly List of Russian Accessions, Library of Congress, October 1952 1953, Uncl.

1. SOROKIN S.V.
2. USSR (600)
4. Ticks
7. Characteristics of the propagation of grain ticks in rodents' nests on collective farm lands, Zool.zhur. 32 no.1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SOROKIN, S.V.

Study on the ecology of flour mites (Acarina, Tyroglyphoidea) in nests  
of ants. Ent.oboz. 33:209-213 '53. (MLRA 7:5)

1. Zoologicheskii institut Akademii nauk SSSR, Leningrad. (Mites)

SOROKIN, S.V.

Grain mites occurring in meadow formations. Zool.zhur. 39 no.3:  
356-364 '60. (MIRA 13:6)

1. All-Union Institute of Plant Protection, Leningrad.  
(Kirov Province--Mites)  
(Meadows and pastures)  
(Vologda Province--Mites)

SOROKIN, S.V., inzh.

Small structures on the Dudinka - Noril'sk line. Transp.stroi.  
15 no.10:13-15 0 '65. (MIRA 18:12)

SOROKIN, S. YA.

Kholodnaia shtampovka; pod red. A. N. Malova. Moskva, Oborongiz, 1948.  
218 p. illus.

Bibliography: p. (215).

(Cold punching.)

DLC: TS253.S72

SO: Manufacturing and Mechanical Engineering in the Soviet Union,  
Library of Congress, 1953.

1. SOROKIN, S.YA.
2. USSR (600)
4. Technology
7. Technology of sheet stamping of magnesium alloys. Moskva, Mashgiz, 1951

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

SCRCKIN, S. YA., ENG., DAVIDOV, YU. P. ENG.

Extrusion (Metals)

Deep extrusion of aluminum alloys and heating of the deformed blanks. Vest. mash. 32, no. 2, 1952.

Monthly List of Russian Accessions. Library of Congress, October 1952. Unclassified.



SOROKIN, S.Ya. [author]; BARANOV, P.I. [reviewer].

"Die-casting of non-ferrous alloys." S.I.A. Sorokin. Reviewed by P.I. Baranov.  
Lit.proizv. no.8:31-32 Ag '53. (MLRA 6:8)

(Sorokin, S.I.A.) (Die-casting)

*Sorokin, S. Ya.*

137-1957-12-23762D

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 129 (USSR)

AUTHOR: Sorokin, S. Ya.

TITLE: An Investigation of the Drawing of Magnesium Alloys and the Technology of Stamping of Airplane Parts (Issledovaniye vytyazhki magniyevykh splavov i tekhnologiya shtampovki samoletnykh detaley)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Moscow Institute for Non-ferrous Metals and Gold (Mosk. in-t tsvetn. met. i zolota), Moscow, 1957.

ASSOCIATION: Moscow Institute for Non-ferrous Metals and Gold (Mosk. in-t tsvetn. met. i zolota), Moscow

1. Magnesium alloys-Drawing 2. Magnesium alloys-Stamping

Card 1/1

SOROKIN, S.Ya.; MEDVEDEV, B.P.

Deep drawing of titanium and titanium alloy machine parts.  
Kuz.-shtam. proizv. 4 no.3:14-17 Mr '62. (MIRA 15:3)  
(Deep drawing (Metalwork)) (Titanium alloys)

18.1285

1.1310

311122  
S/182/62/000/003/003/006  
D040/D113

AUTHORS: Sorokin, S. Ya., and Medvedev, B.P.

TITLE: Deep extrusion of parts made of titanium and its alloys

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 3, 1962, 14-17

TEXT: The article contains brief general information on the physical and mechanical properties of Ti and Ti alloys, and technical recommendations for the deep extrusion of ~~BT~~1-1 (VT1-1) and ~~OT~~4 (OT-4) alloys. These two alloys and ~~BT~~1-2 (VT1-2) are used for containers, streamlined casings, platings, and shaped elements. Recommendations are given after studying the behavior of VT1-1 and OT-4 alloys in extrusion at 20-650°C. It is stated that the extrusion factor (K), can be raised mainly by reducing the deformation resistance of the flange of the stampings and by increasing the wall strength in the critical spot, which can be achieved by heating the flange and cooling the walls and the bottom of the stampings. The experimental die design providing these conditions is shown (Fig. 1). The maximum extrusion

Card 1/81

Deep extrusion ...

S/182/62/000/003/003/006  
D040/D113

factor reached in cold extrusion of VT1-1 and OT-4 alloys was 1.8±2.0 and 1.4±1.5, respectively. K=2.6 was reached in extruding OT-4 at 300-450°C. The article includes tables of the mechanical properties of the alloys and their variations with temperature, and graphs showing the wall thickness at different extrusion factors, the dependence of K on temperature, and the hardening of the walls of stampings at different K values. Annealing is obligatory to remove residual stresses. The annealing schedule for the VT1-1 alloy after the last stamping operation is: (a) Heating to 500-550°C; (b) up to 1.0 mm thick metal soaked at this temperature for 10-12 min, 1.0-3.0 mm thick metal for 15-20 min, 3.0-4.0 mm thick metal for 35-45 min; cooling in air. Intermediate annealing for removing the hardening: Heating to 530-600°C; soaking at this temperature for 10-12 min per 1 mm billet thickness. For OT-4 the intermediate annealing temperature is 600-650°C; and the soaking time 10-15 min per 1 mm thickness; ready stampings must be annealed at 550-650°C to remove residual stresses, soaking time is 10-30 min, depending on thickness. In cold stamping, the annealing temperature must be nearer to the upper limit, and in hot stamping it must be nearer to the lower limit. Lower annealing temperature and shorter soaking time will not

Card 2/0 3

SOROKIN, S.Ye., dots., kand.tekhn.nauk [deceased]

Theory of the stability of fork-lift loaders. Nauch.trudy MFTI  
no.7:94-111 '57. (MIRA 11:11)  
(Hoisting machinery)

S/180/61/000/006/003/020  
EO21/E135

AUTHORS: Musiyenko, V.T., Orlov, V.M., and Sorokin, T.I.  
(Apatity)

TITLE: Electrolytic refining of titanium-aluminium alloys

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo, no.6, 1961, 30-36

TEXT: The present investigation was carried out on laboratory apparatus suitable for preparing up to 100g of cathodic metal. Electrolysis was carried out in a stainless steel crucible, using an electrolyte of an equimolecular mixture of sodium and potassium chlorides with additions of the lower chlorides of titanium. The anode material was an alloy containing 65% Ti and 30% Al, obtained from the thermal reduction of titanium-containing sources by aluminium. The alloy was ground and placed in an anode basket of perforated sheet nickel with 2 mm perforations. The cathodes were steel rods. The aim of the investigation was to determine the optimum conditions for producing a cathode precipitate with a minimum content of

Card 1/ 3

Electrolytic refining of ...

S/180/61/000/006/003/020  
E021/E135

aluminium whilst at the same time obtaining a satisfactory current efficiency and as complete a utilisation of the anode material as possible. The effect of the cathodic current density was first studied with a temperature of  $800 \pm 10$  °C, an anodic material of 10 mm diameter particles, an anodic current density of  $0.02-0.08$  A/cm<sup>2</sup> and a titanium content in the electrolyte of 2.5-3%. The optimum cathodic current density was 5 A/cm<sup>2</sup>. At this current density there was a minimum aluminium content in the cathode precipitate and also maximum efficiency. The effect of temperature (700-900 °C) was studied using a cathodic current density of 5 A/cm<sup>2</sup>. The results showed that the optimum temperature was 700 °C. However, since there were difficulties in carrying out electrolysis at this temperature (e.g. low fluidity of electrolyte), 750 °C was recommended. A significant decrease in current efficiency and increase in aluminium content in the precipitate only occurred above 800 °C. The concentration of titanium in the electrolyte (in the form of its lower chlorides) was also studied in the range 2-14%. This was found to be the decisive factor in controlling the cathode precipitate.

Card 2/3



PAK, Yu.; SOROKIN, V.

New development in the system of awarding bonuses in workers  
in construction organizations. Sots. trud 8 no.1:128-134  
Ja '63. (MIRA 16:2)

(Wages—Construction industry)  
(Bonus system)

SOROKIN, V.

Without damages, without accidents. Avt.transp. 40  
no.12:40-41 D '62. (MIRA 15:12)

1. Nachal'nik Gosudarstvennyy avtomobil'noy inspeksii  
Leningradskoy oblasti.  
(Leningrad Province--Traffic safety)

SOROKIN, V.

Lenin Hills. Nauka i zhizn' 30 no. 4:8-12 Ap '63.

(MIRA 16:7)

1. Zaveduyushchiy Muzeyevm istorii Moskovskogo gosudarst-  
vennogo universiteta imeni Lomonosova.  
(Moscow--History)

SOROKIN, V. (Vladivostok)

Airplanes stand out. Grazhd.av. 20 no.12:4-5 D '63. (MIRA 17:2)

SOROKIN, V. (COL)

Spravochnik po Voennoy Topografii (Handbook of Military Topography) Third edition, compiled by Maj Gen of Tech Trps F. R. GERASIMOV. Military Publishing House, 1953, 128 pages, price 1 ruble, 75 kopecks.

The book was reviewed in an article by Col. V. SOROKIN. (Voennyy Vestnik. No. 2, Feb 54).

SO: SUM 163, 19 July 1954).

SOFOKIN, V., COL

SOFOKIN, V.-

Coauthor with Col P. KAZANOVSKIY and Lt Col S. GRIGOR'YEV of article,  
"Instruments for Use in Military Topography," published in Voyennyy Vestnik,  
No 16, 1953.

(Voyennyy Vestnik, No 17, Dec 53)

SO: SUM 152, 25 June 1954

COL V. SOROKIN\*, LT GEN OF TECH TRPS M. K. KUDRYAVTSEV\*

Voyennaya topografiya (Military Topography)

By Lt Col A. F. Lakhin\* and Lt Col V. I. Bylinskiy\*. Voenizdat, 1954, 256 pages, price 6 rubles, 85 kopecks. A textbook for officer candidates and sergeants of rifle troops (serzhanty strelkovykh voysk). The book was published under the over-all editorship of Lt Gen of Tech Trps M. K. Kudryavtsev\*, and was reviewed by Col V. Sorokin\* in source. (VV, No 1, 1955)

SO: Krasnaya Zvezda, Sum #450, 11 Apr 55

SOROKIN, V., polkovnik.

Protective terrain features. Voenn. znan. 32 no.1;16-17 Ja '56.  
(MLRA 9:5)

(Atomic warfare)



*Sorokin V*  
BANNIKOV, M., kandidat voyennykh nauk, polkovnik; SOROKIN, V., kandidat  
voyennykh nauk, polkovnik.

Protection of soldiers against means of mass attack ("Protection  
of soldiers against atomic, chemical, and bacteriological attacks"  
by B.V. Kokosov. Reviewed by M.Bannikov, V. Sorokin). Voen.vest.  
37 no.8:86-88 Ag '57. (MIRA 10:10)

(Atomic warfare--Safety measures) (Kokosov, B.V.)

SOROKIN, V., kandidat voyennykh nauk, polkovnik.

"Officer's handbook on military topography" by M.V. Gamezo and  
A.M. Govorukhin. Reviewed by V. Sorokin. Voen. vest. 37 no.3:89-  
92 Mr '58. (MIRA 11:3)

(Military topography)  
(Gamezo, M.V.) (Govorukhin, A.M.)

SOROKIN, V., polkovnik, kand. voyen. nauk

New topographical maps. Voen. znan. 35 no.10:21-22 0 '59.

(MIRA 12:12)

(Maps, Military)

SOROKIN, V., polkovnik zapasa, kand.voyennykh nauk

Training to move by azimuth. Voen.znan. 36 no.8:17-18  
Ag '60. (MIRA 13:7)

(Maps, Military)

SOROKIN, V., polkovinik vo otstavke, kand.voyennykh nauk

Terrain orientation. Voen.znan. 38 no.12:26-27 D '62.

(MIRA 15:12)

(Military education)

(Orientation)

SOROKIN, V.

The street of books. Nauka i zhizn' 30 no.6:73-77 Je '63.  
(MIRA 16:7)

1. Zaveduyushchiy muzeyem istorii Moskovskogo gosudarstvennogo  
universiteta.

(Moscow—Books)

(Moscow—Printing)

SOROKIN, V.A.

Torch for welding vinyl plastics. Khim. mash. no. 6:43 K-D '61.  
(MIRA 15:2)

(Electric welding)  
(Vinyl polymers)

SOROKIN, V.A.

Increasing the capacity of hydraulic compressors. Izobr.v.SSSR  
2 no.9:39 S '57. (MIRA 10:10)  
(Compressors)



S/194/61/000/010/049/082  
D256/D301

24,3500

AUTHOR: Sorokin, V.A.

TITLE: Certain optical variations of electro-luminescence

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 10, 1961, 6, abstract 10 G43 (Uch. zap. Khabar-  
ovskiy gos. ped. in-t. Fiz.-matem. ser., 1959, 1,  
15-24)

TEXT: The dependence was investigated of the electro-  
luminescence brightness and spectral characteristics upon the volt-  
age and frequency of a sinus electric field for a phosphor prepared  
by heating a layer of a complex composition based on ZnS at 1000°C.  
The measuring arrangement is described. 7 figures. 16 references.  
[Abstracter's note: Complete translation]

Card 1/1

SOROKIN, Valentin Alekseyevich; SKVIRSKIY, Lev Grigor'yevich; KARATSEVA  
Izetskhan Kaziyeвна; SAMOYLOV, V., otv. red.; SHATROVA, T., red.  
izd-va; TELEGINA, T., tekhn. red.

[Organization of auditing work on government revenue]Organiza-  
tsiia revizionnoi raboty po gosudarstvennym dokhodam. Moskva,  
Gosfinizdat, 1962. 219 p. (MIRA 16:3)  
(Revenue--Auditing and inspection)

SOROKIN, V.A., doktor tekhn. nauk; IVANOV, A.I., kand. tekhn. nauk;  
ROGACH, A.P.

Preparation of manganese coke and its use in making converter cast iron. Met. i gornorud. prom. no.4:32-33  
J1-Ag '63. (MIRA 16:11)

1. Donetskii politekhnicheskii institut.

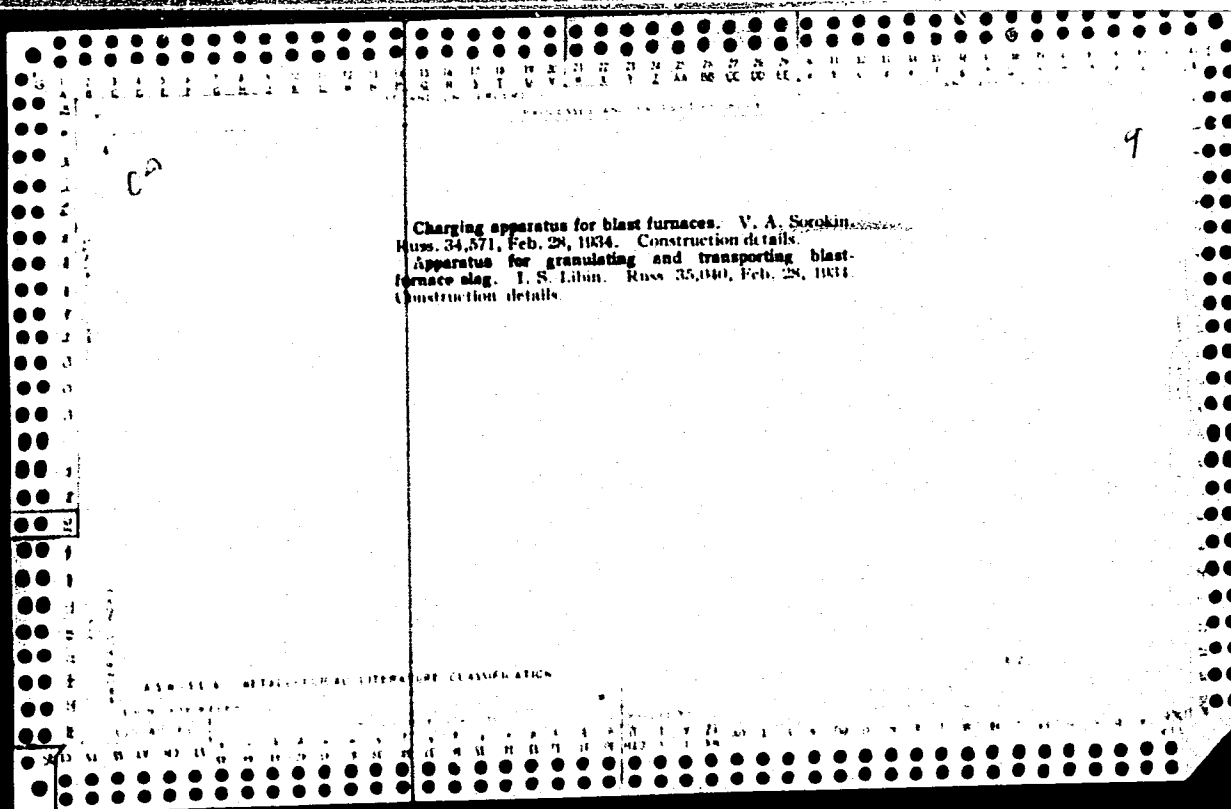
MILLIONSHCHIKOV, Anatoliy Dmitriyevich; SOROKIN, Valentin Alekseyevich;  
KOZHUKH, Semen Arkad'yevich; TITOV, Konstantin Sergeyevich;  
FILIPPOVA, E., red.

[Deductions from profit] Otchisleniia ot pribyli. Izd.3.,  
perer. i dop. Moskva, Izd-vo "Finansy," 1964. 182 p.  
(MIRA 17:6)

SOROKIN, V.A.

Curves that are similar to their evolutes. Uch. zap. MGPI  
no. 243:153-159 '65 (MIRA 19:1)

Minkowski geometry with a nonsymmetrical indicatrix. Ibid.:  
160-185



Increasing the output of a Martin furnace by means of preliminary continuous refining of the molten pig iron with an air blast. *V. A. Snukin. Izv. Mol. 1937, No. 1, 18-20; Chem. Zentr. 1938, 1, 580.*—The capacity of a Martin furnace can be essentially increased by refining the crude iron in the iron discharge trough by the use of an air blast (cold air, warm air, or O<sub>2</sub>-enriched air) prior to its entrance to the Martin furnace. The process can be used in those plants which operate with molten iron. The economic aspects of the method under conditions prevailing in Russia are discussed. M. G. Moore.

M. G. Moore

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION

SOROKIN, V. A.

Distr: 4E2c

Activated agglomerate of magnetic iron ore. V. A. Sorokin, M. Kh. Lukashenko, I. F. Grishovskiy, and P. V. Mikhalkov. *Sbornik Nauch. Trudov Mez. Fak. Donsk. Inst. 1953, No. 4, 65-129; Referat. Zhur., Msk. 1953, Abstr. No. 0717.*—By applying a fine spray of water to a layer of Fe ore during agglomeration H is formed by interaction of C and H<sub>2</sub>O, and reduces a considerable part of the Fe<sub>2</sub>O<sub>3</sub> to FeO, producing a more porous agglomerate with greater surface area. The consumption of water varies from 17.3% of the charge for 8% of coke fines to 27-30% for 18% of coke fines. For S-contg. iron ore, with an input of 5-20% of coke fines the consumption of C varies from 2 to 14.6%, depending on the vacuum, the degree of reduction of the iron oxides, and the rate of spraying. The formation of up to 40-60% of ferrous silicate in activated agglomerate contg. baked-in C is compatible with high chem. activity and mechanical strength. Use of the water spray increased the capacity of the sintering plant by 55-85%. Use of the activated agglomerate in the blast furnace increased the capacity by 13% and decreased coke consumption by 1.8%.  
A. N. Pestov

6  
1-FRA  
1

4/2

1/1  
B2



SOROKIN, V. A.

Distr: 4E2c

18  
 Increasing the rate of sintering of Krivot-Bog ore.  
 A. Sorokin and B. M. Nosovitskii. *Sbornik Nauch.*  
*Trudov Mts. Fak. Dnepr. Ind. Inst.* 1955, No. 4, 5-13;  
*Referat. Zhurn. Mts.* 1956, Abstr. No. 9714. Two-stage  
 mixing is necessary to increase the effectiveness of nodulation  
 and mixing of charge. The secondary mixer increases the  
 gas permeability of the charge by adding of the last 2-3%  
 of moisture. The optimal content of H<sub>2</sub>O in the charge is  
 7-8%. An increase of vacuum from 850 to 1100 mm.  
 water column, with corresponding increase of air drawn  
 through the charge, increases the capacity of the sintering  
 machine by 0.9-1.35 tons/min. The capacity of existing  
 exhausters of sintering machines should be increased 150%.  
 Max. sintering-machine capacity was attained with 12-15% of  
 last-furnace dust in the charge. A new construction of  
 grates that increases the useful area of suction of the sintering  
 machine by 15% accelerates sintering beyond the amt. due  
 to increase in the amount of exhaust gases. A. N. Pestov

PM

AUTHOR: Sorokin, V.A. Doctor of Technical Sciences SOV/133-59-1-4/23  
TITLE: Efficiency Improvement in Feeding Raw Materials to a Blast  
Furnace (Ratsionalizatsiya usloviy podachi syrykh  
materialov v domennuyu pech')  
PERIODICAL: Stal', 1959, Nr 1, p 15 (USSR)  
ABSTRACT: A scheme of supplying blast-furnace feed to skips based  
on diploma work of the Donets Institute students is  
briefly outlined. The main feature is the replacement of  
the scale car by conveyors. The weighing is carried out  
on a stationary balance and weighing funnels. When  
operating with hot sinter, its bunkers should be situated  
over the skip hoist. Sinter is screened in a manner  
similar to that used for screening coke (figure).  
There is 1 figure.  
ASSOCIATION: Donetskiy industrial'nyy institut (Donets  
Industrial Institute)

Card 1/1

S/137/60/000/010/005/040  
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 39, #22715

AUTHORS: Sorokin, V.A., Lukashov, G.G., Pliskanovskiy, S.T., Temnokhud, N.N.

TITLE: First Results of the Experimental Operation of a System of Devices  
for the Automatic Control of Heat Conditions in a Blast Furnace

PERIODICAL: Tr. Donetsk. industr. in-ta, 1959, Vol. 40, pp. 19 - 32

TEXT: In accordance with formulae of heat control submitted, the calculation of basic parameters of blast furnace smelting process depends on 39 variables, some of which are varying slowly with time and the rest are varying continuously. The calculation of blast furnace melting parameters by these formulae, is carried out with the use of computing devices designed by the L'vov Polytechnic Institute. The parameters varying slowly with time, are supplied to the computer with the aid of a manual apparatus handle; the continuously varying parameters are introduced automatically. To obtain continuously the values of these parameters, measuring devices are mounted which are equipped with additional indicators for the trans-

Card 1/2

S/137/60/000/010/005/040  
A006/A001

First Results of the Experimental Operation of a System of Devices for the Automatic Control of Heat Conditions in a Blast Furnace

formation of the indices into electric pulses and for the continuous introduction of the variables to the computer. The authors discuss the results of automatic control device and computer operation on blast furnace No. 2 of the "Azovstal' " Plant, which show that the computers make possible the continuous determination of heat conditions of the furnace and the use of these data to regulate the process.

V.B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

SOROKIN, V.A., doktor tekhn.nauk prof.; IVANOV, A.I., inzh.

Magnetized roasting of Krivoy Rog quartzites in a fluidized  
bed. Izv.vys.ucheb.zav.; chern.met. 2 no.10:17-21 0 '59.  
(MIRA 13:3)

1. Donetskii industrial'nyy institut. Rekomendovano kafedroy  
metallurgii chuguna Donetskogo industrial'nogo instituta.  
(Krivoy Rog--Quartzite) (Fluidization)

SOROKIN, V.A., doktor tekhn.nauk, prof.

Efficient method of feeding raw materials into blast furnaces.  
Stal' 19 no.1:15 Ja '59. (MIRA 12:1)

1. Donetskii industrial'nyy institut.  
(Blast furnaces--Equipment and supplies)

SOROKIN, V.A., doktor tekhn.nauk; KARMAZIN, V.I., doktor tekhn.nauk;  
KATSEN, L.G., kand.tekhn.nauk; IVANOV, A.I., inzh.; OSTAPENKO,  
P.Ye., inzh.

Magnetized roasting of Krivoy Rog quartzites in a fluidized bed.  
Stal' 20 no. 12:1057-1060 D '60. (MIRA 13:12)

1. Mekhanobrchermet.

(Krivoy Rog--Quartzite)

(Fluidization)

SOROKIN, V.A., doktor tekhn.nauk; KULIKOV, Ya.P., inzh.; BULGAKOV, F.V.,  
inzh.; IVANOV, A.I., inzh.

Sintering of iron ores under positive pressure. Met. i  
gornorud. prom. no.2:3-7 Mr-Ap '62. (MIRA 15:11)  
(Sintering)



SOROKIN, V.A., prof., doktor tekhn. nauk; REBEKO, A.F., red.;  
GOLYATKINA, A.G., red.izd-va; EN'YAKOVA, G.M.,  
tekhn. red.

[Fully automated blast furnaces] Kompleksnaia avtomati-  
zatsiia domennykh pechei. Moskva, Metallurgizdat,  
1963. 279 p. (MIRA 17:2)

KULIKOV, Ya. P., inzh.; SOROKIN, V. A., doktor tekhn. nauk;  
PLISKANOVSKIY, S. T., inzh.; GULYGA, D. V., inzh.;  
KAMINSKIY, G. P., inzh.; KOZHUKH, V. Ya., inzh.

Automatic control of thermal conditions in blast furnaces. Met.  
i gornorud. prom. no.1:6-10 Ja-F '63. (MIRA 16:4)

(Blast furnaces)  
(Automatic control)

SOROKIN, V.A.

1  
0002

Tests on Elliptical Tuyeres. V. A. Sorokin et al. (Stal', 1965, (2), 107-113). (In Russian). After an account of previous experiments in the use of tuyeres of elliptical section, recent full-scale tests on an 18-ft hearth diameter blast furnace at the Stalin works are described. Details of the furnace operation with normal and elliptical tuyeres are given, and evidence is presented of increase in the active zone of the hearth with the latter. Best effects were obtained when ores were charged preferentially to the walls. With elliptical tuyeres the pressure-drop up the furnace decreased, enabling higher blowing rates and blast temperatures to be used, the productivity increasing by 3.03%, and coke rate decreasing by 2.84%. The lives of the two types of tuyeres were equal.

of LFH

*SOROKIN, V.A.*

137-58-5-9867

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 142 (USSR)

AUTHOR: Sorokin, V.A.

TITLE: A New Welding Fixture (Novoye svarochnoye prispobleniye)

PERIODICAL: Mashinostroitel', 1956, Nr 2-3, p 32

ABSTRACT: A description is presented of the design of a fixture for high-output resistance seam welding to tubular frames of tubes (T) of > 18 mm diam, with walls of 0.1-0.5 mm thickness. The fixture is mounted on to MShP type welders with ignitron interrupters. Use of this fixture speeds the welding of tubes and improves the quality of the welded seam.

N. T.

1. Spot welding--Equipment    2. Ignitrons--Applications

Card 1/1

SOROKIN, V.A., inzhener.

~~Секрет~~  
Innovator Mikhail Semenovich Kazartsev. Izobr. v SSSR 1 no.5:38  
N '56. (MIRA 10:3)  
(Screw-cutting machines)

SOROKIN, V.A.

Possibilities for increasing productivity. Mashinostroitel'  
no.2:24 F '57. (MLRA 10:5)

1. Moskovskiy eksperimental'nyy zavod khimicheskogo  
mashinostroyeniya.  
(Labor productivity)

SOROKIN, V.A.

Workers' ingeniousness came to the rescue. Izobr. v SSSR 2 no.6:  
17-19 Je '57. (MLRA 10:8)

(Machine-shop practice)

SOROKIN, V.A.

M.S. Kazartsev's lathe attachment. Izobr.v SSSR 2 no.12:34-35  
D '57. (MIRA 10:12)

(Lathes--Attachements)



SOROKIN, V.A.; NEKRASHEVICH, I.A.

Attachments used for cutting worms with variable pitch.

Mashinostroitel' no.3:29-31 Mr '57.

(MLRA 10:5)

(Screw-cutting machines--Attachments)

SOROKIN, V.A.

Everyday's work. Izobr. i rats. no.9:16-17 8 '58. (MIRA 11:10)

*Sr. Eng. Sodeystviya*  
1. Starshiy inzhener byuro sodeystviya ratsionalizatsii i izobre-  
tatel'stvu.

(Machine-shop practice)

AUTHOR: Sorokin, V.A. SOV/117-58-11-11/36

TITLE: A Saving of More than 100,000 Rubles per Year (Boleye stasyach rubley ekonomii v god)

PERIODICAL: Mashinostroitel', 1958, Nr 11, pp 13 - 14 (USSR)

ABSTRACT: In the Moskovskiy eksperimental'nyy zavod NIIKhIMMASH (Moscow Experimental Plant NIIKhIMMASH) the serial production of the super-high pressure hydraulic compressor GK-7/6,000 started seven years ago. The compressor was developed by Professor L.F. Vereshchagin and Engineer V.Ye. Ivanov in the Laboratoriya fiziki sverkhvysokikh davleniy Akademii nauk SSSR (Laboratory of Super-High Pressures of the USSR Academy of Sciences). In 1956, the compressor was modernized by installing a container of operating liquid with a capacity of 12 liters, two plunger pumps ensuring a pressure of 50-60 kg/cm<sup>2</sup> for lubrication and by reducing the size of the metal frame. These improvements permitted an increase in the operation pressure to 8,000 atm. For a further increase to 10,000 atm, the slide (Figures 2 and 3) were made of steel instead of rub-

Card 1/2

A Saving of More than 100,000 Rubles per Year

SOV/117-58-11-11/36

ber. The head of the machine was made from steel OKhNZM instead of 40Kh. The new compressor GKM-10,000 (Figure 4) is used for compressing liquids and for testing apparatus. There are 3 sets of diagrams and 1 photo.

1. High pressure compressors--Design 2. High pressure compressors  
---Equipment 3. High pressure compressors--Applications

Card 2/2

AUTHOR: Sorokin, V.A. SOV/117-58-12-20/36

TITLE: A Head With a Hard Alloy Nozzle (Golovka ssoplom iz tvërdogo splava)

PERIODICAL: Mashinostroitel', 1958, Nr 12, p 27 (USSR)

ABSTRACT: For the purpose of replacing nozzles in sandblast machine heads, made of steel, glass or cast iron with an average service life of 8 hrs, the author, together with V.I. Ushakov and A.I. Filippov from the NIIKhIMMASH Experimental Plant, designed a "VK15" hard alloy nozzle. It proved satisfactory in practical use and has a service life of 300 hrs. There is 1 diagram.

Card 1/1

25(2)

SOV/117-59-5-24/30

AUTHOR: Sorokin, V.A.

TITLE: A Device for Grinding Gear Shaper Tools

PERIODICAL: Mashinostroitel', 1959, Nr 5, p 39 (USSR)

ABSTRACT: The device, developed by operator M.G. Larkin with the assistance of Designer A.A. Karpukhin, is designed for application in shops where no special tool grinding machines are available. It consists of a cast iron base plate, with an electric motor (of 0.6 kw at 1400 rpm) on it, and an emery wheel mounted directly on the motor shaft. The motor moves on guides. The tool to be sharpened is held in a holder fixed on the base plate. The device permits the sharpening of gear shaper cutters with the needed accuracy without preparation by template. It has reduced by 10 times the grinding time. There are 2 photos and 1 diagram.

Card 1/1

S/184/61/000/006/005/005  
D041/D113

AUTHOR: Sorokin, V.A.

TITLE: Burner for welding vinyl plastics

PERIODICAL: Khimicheskoye mashinostroyeniye, no. 6, 1961, 43

TEXT: The author describes a burner (Fig.I) to be used for welding vinyl plastics, organic glass and other plastic materials, developed by P.V. Bandurin, mechanic and innovator of the NIIKhIMMASH. The nozzle of the welding burner must be held at a distance of 15-20 mm from the point of welding. The included angle of the weld must be  $60^{\circ}$  for a material 1-5 mm thick, and  $70^{\circ}$  for sheets thicker than 5 mm. The burner reaches a capacity of 15-20 m/hour when welding 4 mm thick vinyl plastics with a V-weld. The weld has a strength of 70-90% of the strength of the welded material. There is 1 figure.

Card 1/1

SOROKIN, V.A.

High-speed swing chuck. Mashinostroitel' no.10:30 0 '61.  
(MIRA 14:9)

(Chucks)



KULIKOV, Ya.P., inzh.; KARDASEVICH, I.N., inzh.; SOROKIN, V.A., doktor  
tekhn.nauk

High temperature heating of a blast furnace below. Met. i  
gornorud. prom. no.3:6-10 My-Je '62. (MIRA 15:9)  
(Blast furnaces)

DEDEYEV, V.A.; SOROKIN, V.A.

Prospects for finding oil and gas in the Mesozoic sediments  
of Timan-Pechora province. Neftegaz. geol. i geofiz. no.9:  
9-12 '64. (MIRA 17:11)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazve-  
dochnyy institut, Leningrad.

SOROKIN, V. F.

On Experiences Collected with Biomycine in storing Meat.

report presented at the Conference on Use of Antibiotics in Food Industry, Inst,  
Microbiology, AS USSR, Jan. 15, 1958.

Prikarpatkiy Military District Veterinary Lab.

SOROKIN, V. F.

The Use of Antibiotics in Food Industry.

~~SECRET~~  
30-58-4-24/44

Conference at the Institute for Microbiology Jan 15

Rept given by the following:

5) V. F. Sorokin (Priкарпатский Military District  
Veterinary Laboratory) on experiences  
collected with biomycine (biomitsin)  
in storing meat.

6) Yu. I. Rubinshteyn (Nutritional Institute of the *Nutrition*  
Academy of Medical Sciences of  
the USSR) on problems of hygiene.

The lecturers pointed out the necessity of increasing  
research work and underlined the importance of the de-  
termination of new antibiotics. In the final decision  
further research in this field was outlined.

1. Antibiotics—Applications    2. Food—Processing

SO: Vestnik Akademii Nauk SSSR, 1958, No 4, pp.107-109 (USSR) Uncl

Card 3/3

SOROKIN, V.F.

Nauchno-issledovatel'skiy institut fizicheskoy kul'tury. Trudy  
Vses.ob-va fiziol.biokhim.i farm. 2:135-136 '54. (MLRA 8:7)

1. Nauchno-issledovatel'skiy institut fizicheskoy kul'tury.  
(ATHLETICS, physiology,  
determ. of rate of running)

SOROKIN V F.

AUTHOR: Sorokin, V. F. 30-2-37/49  
 TITLE: Lectures by a Chinese Scientist (Lektsii kitayskogo uchenogo).  
 In the Institute for Sinology (V institute kitayevedeniya)  
 PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 2, pp. 106-106  
 (USSR)

ABSTRACT: In November 1957 the distinguished Chinese scientist Chzhen Chzhen'-Do followed an invitation of the AS USSR and visited the Soviet Union. He is the Director of the Institutes for Literature and Archeology of the Academy of Sciences of the CPR (Chinese People's Republic) and Deputy Minister for Culture. In the Institute for Sinology he gave a series of lectures on the history of Chinese artistic prose. He is known as an important expert in the field of the history of Chinese literature and culture. He is the author of a great number of publications and articles on the history of Chinese prose, dramaturgy, poetry and popular art, painting and engravings, archeology and epigraphy. In his lectures he treated the development of the Chinese artistic prose from its origin to the beginning of the 20<sup>th</sup> century. He stressed the influence of Indian, especially Buddhist literature. Besides

Card 1/2

Lectures by a Chinese Scientist. In the Institute for Sinology 30-2-37/49

the analysis of classical novels he gave a characterization of stories and novelettes which had not been investigated before. Finally he characterized the accusing novels of the last period of the Tsin dynasty, which he called a mirror image of the Chinese regime of that time - half colonial, half feudal. In the Leningrade branch of the Institute for Orientalistics he gave a lecture on the periodization in the history of Chinese literature. During his stay in the USSR Chzhen Chzhen'-Do got to know the collections of sinological books in some Moscow and Leningrade libraries as well as collections of Chinese art. In Georgia and Armenia he studied the results of archeological investigations.

AVAILABLE: Library of Congress

1. Literature-China 2. Culture-China

Card 2/2

SOROKIN, V.G., inzh.; VEYSMAN, V.F., inzh.

Semiautomatic machine for shaking out molds. Mashinostroenie  
no.3:46-50 My-Je '63. (MIRA 16:7)

1. Ukgiprotyazhmash.  
(Molding(Founding)—Equipment and supplies)



SOROKIN, V.G., inzh.; ALEKSANDROV, N.S., inzh.

Mechanization of molding, melting and baking processes in a  
precisi casting shop. Mashinostroenie no. 2:7-10 Mr-Ap '64  
(MIRA 17:5)

SOROKIN, V.I.; GORODETSKIY, L.N.

Strip manipulating device. Metallurg 6 no.4:32-33 Ap '61.

(MIRA 14:3)

1. Zamestitel' nachal'nika rel'sobalochnogo tsekha zavoda im. Petrovskogo (for Sorokin). 2. Pomoshchnik nachal'nika tsekha po oborudovaniyu, rel'sobalochnyy tsekh zavoda im. Petrovskogo (for Gorodetskiy).

(rolling mills--Equipment and supplies)

43295

S/135/62/000/012/006/015  
A006/A101

1.2.300

2408

AUTHORS: Kodolov, V. D., Sorokin, V. I., Engineers

TITLE: Welding aluminum alloys with consumable electrode in an argon-chlorine mixture

PERIODICAL: Svarochnoye proizvodstvo, no. 12, 1962, 16 - 19

TEXT: Information is given on the possibility of welding some aluminum alloys without previous refining of the part and the wire, by using an argon-chlorine mixture. The chlorine is prepared in an electrolytic cell and the argon-chlorine mixture is obtained in a tee-type glass mixer with a capillary in the horizontal section. Passing through the capillary, the argon flux ejects the chlorine which is supplied to the mixer through an inclined tube. The argon consumption passing through the mixer is 12 - 16 l/hour. The effect of chlorine on the reduction of porosity in welds was tested on chemically refined and unrefined AMr 6 (AMg6) and B 92 (V92) alloy plates, 10 and 20 mm thick. The plates were welded with contaminated AMg6 wire 2 mm in diameter, in an argon-chlorine mixture; chlorine consumption was from 1 to 20 cm<sup>3</sup>/min. It was found that unrefined sheets, welded with unrefined wire, showed high porosity of the welded

Card 1/2

Welding aluminum alloys with...

S/135/62/000/012/006/015  
A006/A101

Joints. Small admixtures of chlorine to the arc gap, supplied through a contact tube of the welding torch during welding in argon, produced welded joints without pores, as established by X-ray control. Optimum chlorine consumption in welding 10 - 20 mm thick AMg6 alloy is 10 - 12 cm<sup>3</sup>/min. On the basis of the results obtained an industrial unit was developed, intended for the arc welding with consumable electrode of aluminum alloy in argon and chlorine. Its design is simple, and it can operate during 100 hours without being recharged; safety conditions are satisfactory, if conventional ventilation is assured. The method developed can be recommended to be brought into use, as it assures savings of means required for the refining of the parts and the wire. There are 6 figures and 1 table.

Card 2/2

SOROKIN V. I.

Skeletno-myshechnaya kletka i ee zhiznedeiatel'nost' v  
tselostnom organizme v zavisimosti ot nervnykh vliianii.  
/Skeletomuscular cell and its activity in the entire organism  
in relation to the effect of the nervous system/ Izv. Akad.  
nauk SSSR. Ser. biol., Moskva No. 5 Sept-Oct 50 p. 125-33.

1. Cytological Laboratory of the Institute of Experimental Biology  
of the Academy of Medical Sciences USSR.

SOBOLEV, V. I.

SOBOLEV, V. I. -- "Contractile Activity of Skeletal-Muscular Fiber in Relation to Nervous Actions." Sub 11; Nov 52, Acad Med Sci U-SSR. (Dissertation for the Degree of Doctor in Biological Sciences).

So: Vechernaya Moskva January-December 1952

SOROKIN, V.I., doktor biolog.nauk

Live embryo under the microscope. Nauka i zhizn 28 no.6:73  
Je '61. (MIRA 14:7)

(Embryology)

LEYTMAN, Ya.I.; SOROKIN, V.I.; TSELINSKIY, I.V.

Kinetics of the sulfonation of 1,3,5-trimethylbenzene (mesitylene) and 1,2,4-trimethylbenzene (pseudocumene), and hydrolysis of their sulfonic acids. Zhur. prikl. khim. 33 no.8:1875-1882 Ag '60.  
(MIRA 13:9)

1. Leningradskiy tekhnologicheskii institut imeni Lensoвета.  
(Mesitylene) (Benzene) (Sulfonation)



SOROKIN, V.I.

Formation of iron and copper sulfides in hydrothermal conditions.  
Vest.Mosk.un.Ser.4:Geol. 17 no.4:50-54 J1-Ag '62. (MIRA 15:9)

1. Kafedra poleznykh iskopayemykh Moskovskogo gosudarstvennogo  
universiteta.

(Sulfides)

СОНОВИЧ, В.И.

Industrial electric locomotive, type IV-KP-1. Moskva, Ugletekhizdat, 1952.  
274 p. (53-19142)

TF975.S65

112-1-919

• Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1,  
p. 148 (USSR)

• AUTHOR: Sorokin, V. I.

TITLE: An Experiment in Applying Electric Locomotive Transportation  
in Coal Pits (Opyt primeneniya elektrovoznogo transporta na  
ugol'nykh razrezakh)

PERIODICAL: Sbornik: Sovershenstvovaniye otkrytoy razrabotki mesto-  
rozhdennykh poleznykh iskopayemykh Moscow, Ugletekhizdat, 1955,  
pp. 295-316

ABSTRACT: Electric traction (basically with 1650-v d-c current) at  
present rapidly is displacing steam traction in hauling  
debris; at the same time the productivity of electric traction  
rolling stock increases; for example, the productivity of the  
Korkinugol' trust during the past 5 years increased by 74  
per cent. The efficiency of electric traction can be ex-  
plained by: a) reduced volume of fundamental mining work for  
the arrangement of down grades due to the possibility of in-  
creasing grades up to 40 per mille and of applying small

Card 1/3

112-1-919

An Experiment in Applying Electric Locomotive Transportation in Coal Pits (Cont.)

radius curves of 80 to 100 m; b) reduced fire hazard; c) reduction of cost of haulage as compared with steam traction by 25 to 37.5 per cent, and others. The unit power consumption depends on the season. In the Vakhrushev-ugol' trust the unit power consumption for the year 1954 amounted to 2.84-3.39 kwhr during the winter months and 1.84 to 2.05 kwhr per 1 cu m of removal during the summer. Traction substations do not differ from regular d-c substations. The system of contact wire suspension is the simple compensated one. In cut places and dump routes a simple rigid suspension system is used, while in the cutting routes the contact wire is suspended on the side of the track at a distance of 2.2 to 2.5 m. The new supporting structures for the contact wire are distinguished by the base which is in the form of two long tie-beams fastened to the track rails and rigidly connected with it by two sections of a Nr 14 - 16 channel beam. In this way the supports along with sectors of the track are moved by a crane during the moving of the track. Basic data on the electric locomotives used in coal mining and a powerful electric locomotive planned are presented. A system of

Card 2/3

112-1-919

An Experiment in Applying Electric Locomotive Transportation in Coal Pits (Cont!)

repairing the rolling stock is described. Great perspectives of the further development of electric traction in coal pits are indicated and the necessity of introducing signalization, centralization and blocking systems (STsB) and of studying the problem of using a single-phase current of normal frequency for traction are pointed out.

I.V.I.

Card 3/3

SOROKIN, V.I., inzhener.

Electric locomotives for coal mine transport. Mekh trud.rab. 10  
no.1:10-14 Ja '56. (MLRA 9:5)

(Locomotives) (Mine railroads)

SOROKIN, V.I., inzh.

Heavy-duty industrial electric locomotives. Elek. i tepl. tiaga  
2 no.9:35-37 S '58. (MIRA 11:10)  
(Electric locomotives)

SOROKIN, V.I.

[Timetables for Moscow-Ramenskoye-Gol'tvin and Moscow-Kurovskaya suburban trains on the Moscow Railroad; summer 1960] Raspisanie dvizheniya prigorodnykh poezdov Moskva-Ramenskoe-Gol'tvin - Moskva-Kurovskaya Moskovskoi zh.d.; leto 1960 g. Moskva, Transzheldorizdat, 1960. 75 p. (MIRA 13:5)

1. Russia (1923- U.S.S.R.) Glavnoye passazhirskoye upravleniye.  
(Railroads--Timetables) (Moscow--Railroads--Commuting traffic)



SOROKIN, Vladimir Ivanovich; KOLOMIYTSSEV, A.D., inzh., otv.red.; BERE-  
SLAVSKAYA, L.Sh., tekhn.red.

[Industrial electric locomotives] Promyshlennye elektrovozy.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960.  
318 p. (MIRA 13:3)  
(Electric locomotives)

KHOKHLOV, Yevgeniy Anatol'yevich, inzh.; SOROKIN, Vladimir Ivanovich, inzh.;  
POTAPOV, M.G., otv.red.; KOLOMIYTSYEV, A.D., red.izd-va; BERESLAV-  
SKAYA, L.Sh., tekhn.red.; BOLDYREVA, Z.A., tekhn.red.

[Electric traction in strip mines] Elektricheskaya tiaga na ugol'-  
nykh kar'erakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu  
delu, 1960. 407 p. (MIRA 13:9)

(Mine railroads)

SOROKIN, V.I., inzh.; OSIPOV, S.I., inzh.; NEMUKHIN, V.P., kand.tekhn.nauk;  
HUDNEV, V.N., inzh.

Replies to readers' questions. *Elek.i tepl.tiaga* 4 no.2:43-44 F  
'60. (MIRA 13:6)

(Railroad engineering)

SOROKIN, V.I., otv. za vypusk

[Timetable of suburban trains; Moscow-Ramenskoye-Golutvin;  
Moscow - Kurovskoye - Cherusti of the Moscow Railroad; summer 1962]  
Raspisanie dvizheniya prigorodnykh poezdov. Moskva - Ramenskoe -  
Golutvin; Moskva - Kurovskaya - Cherusti, Moskovskoi zh.d.; leto  
1962 g. Moskva, Transzheldorizdat, 1962. 92 p. (MIRA 15:6)  
(Railroads--Timetables)